

WHAT IS CLAIMED IS:

1 1. A grommet for holding a wire harness including a plurality of wires on
2 which an adhesive tape is wound, the wire harness has a water-stop portion,
3 and a water-stop agent is filled in interstices between the plurality of wires at the
4 water-stop portion, the grommet comprising:

5 a first division member, having a convex portion formed on an outer
6 face thereof; and

7 a second division member, having a concave portion for receiving the
8 water-stop portion, the concave portion having a shape corresponding to a
9 cross-sectional shape of the wire harness,

10 wherein an inner face of the first division member is pressed against
11 the water-stop portion of the wire harness when the convex portion of the first
12 division member is pressed toward the second division member.

1 2. The grommet as set forth in claim 1, wherein the inner face of the first
2 division member of the grommet has a flat face.

1 3. A water-stop structure of a wire harness, comprising:

2 a wire harness, including a plurality of wires on which an adhesive tape
3 is wound, the wire harness having a water-stop portion, and a water-stop agent
4 being filled in interstices between the plurality of wires at the water-stop portion;

5 a grommet, including a first division member and a second division
6 member for holding the water-stop portion of the wire harness; and

7 a waterproof box, including a box body for receiving a part of the wire

8 harness, and a lid member for closing the box body,

9 wherein the first division member has a convex portion formed on an
10 outer face thereof;

11 wherein the first division member is formed in a substantially
12 plate-shape so as to extend along an edge of an opening of the box body; and

13 wherein the second division member has a concave portion for
14 receiving the water-stop portion, and the concave portion has a shape
15 corresponding to a cross-sectional shape of the wire harness; and

16 wherein the second division member is mounted at a notch portion of
17 the box body; and

18 wherein the convex portion of the first division member is pressed
19 toward the second division member by the lid member so that an inner face of
20 the first division member is pressed against the water-stop portion of the wire
21 harness when the grommet for holding the wire harness is assembled to the
22 waterproof box.

1 4. The water-stop structure as set forth in claim 3, wherein the inner face
2 of the first division member of the grommet has a flat face.

1 5. A grommet for holding a wire harness including a plurality of wires on
2 which an adhesive tape is wound, the wire harness has a water-stop portion,
3 and a water-stop agent is filled in interstices between the plurality of wires at the
4 water-stop portion, the grommet comprising:

5 a first division member and a second division member for holding the
6 water-stop portion of the wire harness,

7 .wherein a holding portion for holding the water-stop portion of the wire
8 harness is formed at the grommet when the first division member is assembled
9 to the second division member; and
10 a diameter of the holding portion is smaller than a diameter of the
11 water-stop portion of the wire harness.

1 6. The grommet as set forth in claim 5, wherein an inner face of at least
2 one of the first and second division members which cooperate with each other
3 to form the holding portion of the grommet has a minor-axis elliptical arc-shape.

1 7. A method of producing a wire harness comprising the steps of:
2 preparing a wire harness including a plurality of wires on which an
3 adhesive tape is wound, the wire harness having a water-stop portion; and a
4 water-stop agent being filled in interstices between the plurality of wires at the
5 water-stop portion;
6 preparing a grommet which includes a first division member and a
7 second division member; and
8 assembling the first division member to the second division member so
9 as to form a holding portion which holds the water-stop portion of the wire
10 harness,
11 wherein a diameter of the holding portion of the grommet is smaller
12 than a diameter of the water-stop portion of the wire harness.

1 8. The method as set forth in claim 7, wherein an inner face of at least
2 one of the first and second division members which cooperate with each other

- 3 to form the holding portion of the grommet has a minor-axis elliptical arc-shape.